

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-269355

(43)Date of publication of application : 09.10.1998

(51)Int.Cl.

G06T 5/20

G06T 7/00

(21)Application number : 09-095318

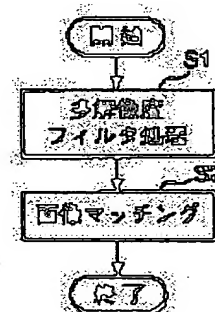
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(22)Date of filing : 27.03.1997

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KUNII TOSHIYASU**(54) MULTIPLE RESOLUTION FILTER PROCESSING METHOD AND IMAGE MATCHING METHOD CAPABLE OF UTILIZING THE METHOD****(57)Abstract:**

**PROBLEM TO BE SOLVED:** To provide the method capable of satisfactorily and automatically acquiring an image characteristic and a correspondence point between images.

**SOLUTION:** A multiple resolution filter that is called a singular point filter is introduced. The filter extracts two kinds of saddle points, i.e. a maximal point and a minimal point of luminance in every four pixels of  $2 \times 2$  vertically and horizontally and generates a new image that has low resolution in each kind of a singular point. First, the multiple resolution filter layers a start point image and an end point image (S1). Next, matching is taken between a start point hierarchical image and an end point hierarchical image (S2).

**LEGAL STATUS**

[Date of request for examination]

17.03.1998

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

2927350

[Date of registration]

14.05.1999

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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